

I claim:

1. A method of electrochemically processing a conductive surface of a workpiece using a process solution, comprising the steps of:
  - deoxygenating the process solution to substantially remove oxygen from the process solution;
  - degassing the process solution, after deoxygenating, to remove gases; and
  - electrochemically processing the surface of the workpiece with the process solution that is deoxygenated and degassed.
2. The method of Claim 1, wherein the step of deoxygenating comprises introducing a treatment gas into the process solution.
3. The method of Claim 2, wherein the step of degassing removes the treatment gas along with gases from the process solution.
4. The method of Claim 3, wherein the degassing step further reduces the amount of remaining oxygen.
5. The method of Claim 1, wherein the step of processing comprises electrochemical deposition.
6. The method of Claim 5, wherein the electrochemical deposition comprises copper electrodeposition.
7. A system for removing gasses from a process solution that is used to process a workpiece surface, comprising:
  - a holding tank for holding the process solution;
  - a deoxygenator for receiving the process solution from the holding tank to substantially reduce oxygen content in the process solution; and
  - a degasser for receiving the process solution, which is deoxygenated, from the deoxygenator to remove substantially all gases from the process solution.

8. The system of Claim 7, further comprising at least one processing unit for receiving the process solution from the degasser to process the workpiece surface.
9. The system of Claim 7, wherein the deoxygenator treats the process solution with a treatment gas to reduce the oxygen content.
10. The system of Claim 9, wherein the treatment gas is nitrogen.
11. The system of Claim 9, wherein the degasser removes the treatment gas as it removes substantially all gases.
12. The system of Claim 7, further comprising the step of returning the process solution back to the holding tank after using the process solution to process the workpiece surface.
13. The system of Claim 7, further comprising a first line for flowing the process solution from the holding tank to the deoxygenator.
14. The system of Claim 13, further comprising a second line to flow the process solution from the degasser back to the holding tank.
15. The system of Claim 14, further comprising at least one processing unit for receiving the process solution from the holding tank to process the workpiece surface.
16. The system of Claim 15, further comprising a third line for flowing the process solution from the holding tank to the at least one processing unit.
17. The system of Claim 16, further comprising a fourth line for flowing the process solution from the at least one processing unit to the holding tank.
18. The system of Claim 8, wherein the at least one processing unit is an electrodeposition unit.